

## CLAIMS

1. (currently amended) Fischer-Tropsch process for the conversion of carbon monoxide and hydrogen to  $C_5^+$  hydrocarbon mixtures ~~in which process use is made of comprising contacting carbon monoxide and hydrogen with~~ Fischer-Tropsch catalyst particles and particles comprising zeolite Y with a water adsorption capacity (25°C,  $p/p_0=0.20$ ) of at least 16 wt% .
2. (currently amended) ~~A~~The process according to of claim 1 wherein a reaction mixture of carbon monoxide and hydrogen is contacted with the Fischer-Tropsch catalyst particles and the particles comprising zeolite Y.
3. (currently amended) ~~A~~The process according to of claim 2 wherein the Fischer-Tropsch catalyst particles and the particles comprising zeolite Y are dosed to the reaction mixture individually.
4. (currently amended) ~~A~~The process according to of claim 3 wherein the Fischer-Tropsch catalyst particles and the particles comprising zeolite Y are dosed at different rates.
5. (currently amended) ~~A~~The process according to of claim 2 wherein the Fischer-Tropsch catalyst particles and the particles comprising zeolite Y are used in the form of shaped bodies in which both particles are embedded.
6. (currently amended) ~~A~~The process according to of claim 1 wherein the Fischer-Tropsch catalyst particles are used in the second step of the Fischer-Tropsch process and the particles comprising zeolite Y are used in the third step of the Fischer-Tropsch process.
7. (currently amended) ~~A~~The process according to any one of the preceding claims 1 wherein the Fischer-Tropsch catalyst particles comprise iron.

8. (currently amended) ~~A~~The process according to any one of the preceding claims  
1 wherein the Fischer-Tropsch catalyst particles comprise cobalt.

9.(currently amended) ~~A~~The process according to any one of the preceding claims 1  
wherein a metal compound has been deposited in or on the particles comprising  
zeolite Y.